CLAIMS

What is claimed is:

1. An apparatus, comprising:

a data path output unit to output a packet header, the packet header including a first field to extend one of a second field or a third field depending on the contents of the second field.

2. The apparatus of claim 1, wherein the second field is a type field.

3. The apparatus of claim 2, wherein the third field is a length field.

4. The apparatus of claim 3, wherein the first field is used to extend the length field when the type field indicates a memory read request transaction.

5. The apparatus of claim 4, wherein the first field is located between and immediately· adjacent to the type field and the length field in the packet header.

6. The apparatus of claim 5, wherein the type field is located in the first byte of the packet header to be output by the data path output unit.

7. An apparatus, comprising:

a data path input unit to receive a packet header, the packet header including a first field to extend one of a second field or a third field depending on the contents of the second field.

8. The apparatus of claim 7, wherein the second field is a type field.

9. The apparatus of claim 8, wherein the third field is a length field.

10. The apparatus of claim 9, wherein the first field is used to extend the length field when the type field indicates a memory read request transaction.

11. The apparatus of claim 10, wherein the first field is located between and immediately adjacent to the type field and the length field in the packet header.

12. The apparatus of claim 11, wherein the type field is located in the first byte of the packet header to be output by the data path output unit.

13. A system, comprising:

a transmitting device to transmit a packet header, the packet header including a first field to extend one of a second field or a third field depending on the contents of the second field; and

a receiving device couple to the transmitting device, the receiving device to receive the packet header.

14. The system of claim 1, wherein the second field is a type field.

15. The system of claim 2, wherein the third field is a length field.

16. The system of claim 15, wherein the first field is used to extend the length field when the type field indicates a memory read request transaction.

17. The system of claim 16, wherein the first field is located between and immediately adjacent to the type field and the length field in the packet header.

18. The system of claim 17, wherein the type field is located in the first byte of the packet header to be output by the data path output unit.